#### DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Yes

No

N/A

Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 1.28

# WELDING INSPECTION REPORT

Resident Engineer: Casey, William **Report No:** WIR-027976 Address: 333 Burma Road **Date Inspected:** 12-Jul-2012

City: Oakland, CA 94607

**Project Name:** SAS Superstructure **OSM Arrival Time:** 700 **OSM Departure Time:** 1930 Prime Contractor: American Bridge/Fluor Enterprises, a JV

Contractor: American Bridge/Fluor Enterprises, a JV **Location:** Job site

**CWI Name:** Scott Kortem **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No **Weld Procedures Followed:** Yes No N/A **Qualified Welders:** Yes No N/A **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** 

**Delayed / Cancelled: Bridge No:** 34-0006 **Component:** Tower

### **Summary of Items Observed:**

Quality Assurance Inspector (QAI) Rodney Patterson was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

Ultrasonic Testing (Tower ESW-"G" from Y=4000~4900 Face B)

This QAI performed 100% Joint Ultrasonic Testing (UT), together with ABF QC inspector Scott Kortum, on the Tower Complete Joint Penetration (CJP) Tee joint shear plate connection designated as ESW-S-045 "G" from Face B. The QA/QC joint inspection on this date was performed in accordance AWS D1.5-2002, section 6, table 6. 4 and supplemental UT procedure SE-UT-D1.5-CT-108-ESW-R5. Due to the presence of weld reinforcement the QAI was unable to size the length and measure the "X" location on the welds in way of the indications observed that were oriented transverse to the weld.

The results of the QA/QC joint inspection are as follows;

Rejectable Planar Longitudinal Indications (Y=4000~4900)

Y=4360, X= -10, Sound Path=144, Depth from A=10, Length 440, +0 db Rating

Recordable Planar Longitudinal Indications (4000~4900)

Y=4030, X= -3, Sound Path=125, Depth from A=15, Length 20, +4 db Rating

Y=4830, X= -5, Sound Path=116, Depth from A=18, Length 50, +2 db Rating

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Transverse Indications (Y=4000~4900)

Y=4020, Sound Path=118, Depth from Face A=18, AWS db Rating = +9

Y=4060, Sound Path=115, Depth from Face A=19, AWS db Rating = +18

Y=4090, Sound Path=108, Depth from Face A=21, AWS db Rating = +19

Y=4110, Sound Path=103, Depth from Face A=23, AWS db Rating = +12

Y=4125, Sound Path=133, Depth from Face A=13, AWS db Rating = +11

Y=4160, Sound Path=95, Depth from Face A=26, AWS db Rating = +16

Y=4200, Sound Path=91, Depth from Face A=27, AWS db Rating = +18

Y=4300, Sound Path=91, Depth from Face A=27, AWS db Rating = +12

Y=4440, Sound Path=99, Depth from Face A=25, AWS db Rating = +10

Y=4490, Sound Path=109, Depth from Face A=21, AWS db Rating = +12

Y=4540, Sound Path=103, Depth from Face A=23, AWS db Rating = +18

Y=4570, Sound Path=108, Depth from Face A=21, AWS db Rating = +4

Y=4670, Sound Path=111, Depth from Face A=20, AWS db Rating = +18

Y=4790, Sound Path=84, Depth from Face A=30, AWS db Rating = +17

Y=4810, Sound Path=116, Depth from Face A=18, AWS db Rating = +8

Y=4860, Sound Path=139, Depth from Face A=10, AWS db Rating = +11

Y=4890, Sound Path=102, Depth from Face A=23, AWS db Rating = +8

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### **Summary of Conversations:**

No relevant conversations.

### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Nina Choy 510-385-5910, who represents the Office of Structural Materials for your project.

Inspected By:	Patterson, Rodney	Quality Assurance Inspector
Reviewed By:	Levell,Bill	QA Reviewer